

## Claims

### 1. The invention claimed is

An improvement to ventilating toilets that extract air from the bowl via an independent air inlet wherein the bowls air is channeled up into the tank via a tube that opens above the water level whereas an air vacuum in the tank can extract the air at the same time water is flushing in the tube.

### 2. The Invention claimed is

An improvement to ventilating toilets in accordance with claim 1 where air is extracted via a dry inlet wherein a small hole is made in the casting between the flush channel and the air inlet and its channel whereas a flush of water can circulate in the air inlet and its channel helping to keep it and the fan clean.

### 3. The invention claimed is

An improvement to a toilet ventilation vacuum fan that would be inserted in the bathroom wall wherein the fan is positioned below the right side of the tank with its inlet centered between the floor and tank. whereas the fan can be connected to an exhaust flange from the bottom of the tank and to the toilets stack.

### 4. The invention claimed is

A valve in accordance with claim 3 that would be inserted into a fan venting a toilet into the toilets stack wherein the valve would be hinged close to the fan blade and close with an air tight seal when the fan was off whereas the valve would allow the fan to be easily installed in the wall and exhausted into a toilets stack.

### 5 The invention claimed is

A valve in accordance to claim 4 in a wall mounted fan which would be connected to the toilets stack wherein the valve is a solid rectangle flap hinged on one end and having a fringe of thin rubber around its edge whereas the solid part would hold the valves shape and the fringe would seal the valve on a beveled seat.

### 6 The invention claimed is

A fan in accordance to claim 3 that would be installed beneath the tank and vented into the stack wherein the fan has a circular cover that has a turn lock feature and an inner rim that helps seal the fan whereas the cover can be easily removed and then the fan blade would also be easily removed for cleaning.

7 The invention claimed is

An adaptation of a fan disc as would be used in the fan of claim 6 that could have a cover as in claim 6 wherein the fan disc has a large hub with a rectangle or an + slot which slides onto a similar shaft attachment whereas the hub can be grabbed to remove fan and the slot allows for an easier replacement after cleaning

8 The invention claimed is

A method of holding a wall mounted toilet fan as in claim 6 in a rectangle hole cut into the bath wallboard wherein the fan has a beveled surface along the top of the housing and two cam knobs in the lower corners whereas the fan is easily installed and held against the wall and easily removed for replacement or cleaning.

9 The invention claimed is

In accordance with claim 8 the cam knob is modified

wherein a thin spring material extends under each cam and is attached to the fan at one end whereas the cam can move easier by presses on the free end of the spring instead of the wallboard

10 The invention claimed is

In accordance with claim 8 the cam knob is modified

wherein an angled piece is riveted to the lower end of the cam

whereas the cam has a better contact with the wall board making tightening easier

11 The invention claimed is

In accordance with claim 3 a fan ventilation exhaust hose and its attachment that would exhaust into the stack

wherein the hose points up and creates a bow before attaching itself to the vent stack via an angled flange

whereas the angled flange and bow keep water in the stack from splashing up the hose and down to the fan

12 The invention claimed is

In accordance with claim 3 a fan ventilation exhaust hose that would exhaust its air up into the attic or stack

wherein the first foot of the hose would be flexible when connected to a ridged pipe or the vent stack

whereas the fan could be removed from the wall stretching the hose allowing one to detach and reattach hose.